

57. The method of claim 51, wherein the MKK-mediated disorder is a proliferative disorder.

58. The method of claim 51, wherein the MKK-mediated disorder is selected from the group consisting of psoriasis, acquired immune deficiency syndrome, and malignancy.

B2 59. The method of claim 58, wherein the malignancy is a malignancy of the skin, bone marrow, lung, liver, breast, gastrointestinal system, or genito-urinary tract.

60. The method of claim 51, wherein the reagent enhances MKK activity.

61. The method of claim 51, wherein the reagent decreases MKK activity.

62. The method of claim 51, wherein the reagent inhibits cell growth or causes apoptosis.

63. The method of claim 51, wherein the reagent inhibits the secretion of an inflammatory cytokine.

64. The method of claim 63, wherein the inflammatory cytokine is a tumor necrosis factor (TNF) or interleukin-1 (IL-1).

65. The method of claim 51, wherein the reagent is an antibody that specifically binds to a polypeptide having the amino acid sequence of SEQ ID NO:2 (MKK3), SEQ ID NO:6 (MKK4- α), SEQ ID NO:8 (MKK4- β), SEQ ID NO:10 (MKK4- γ), or SEQ ID NO:4 (MKK6).

66. The method of claim 51, wherein the reagent is a polypeptide having the amino acid sequence of SEQ ID NO:2 (MKK3), SEQ ID NO:6 (MKK4- α), SEQ ID NO:8 (MKK4- β), SEQ ID NO:10 (MKK4- γ), or SEQ ID NO:4 (MKK6), or a fragment thereof.

67. The method of claim 51, wherein the reagent is an MKK polypeptide that competitively inhibits MKK activity.

68. The method of claim 51, wherein the reagent is an antisense nucleic acid or a ribozyme.

69. The method of claim 51, wherein the reagent modulates MKK3 activity.

70. The method of claim 51, wherein the reagent modulates MKK4 α activity.

71. The method of claim 51, wherein the reagent modulates MKK4 β activity.

72. The method of claim 51, wherein the reagent modulates MKK4 γ activity.

Applicant : Davis et al.
Serial No. : 09/761,569
Filed : January 16, 2001
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Attorney's Docket No.: 10363-003004 / UMMC Ref.:
95-10

73. The method of claim 51, wherein the reagent modulates MKK6 activity.

74. The method of claim 51, wherein the reagent suppresses MKK phosphorylation of

B2 p38, JNK, or ATF2.